PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 14045-1PCT	FOR FURTHER ACTION as well a							
International application No. PCT/US04/30202	International filing date (day/month/year) (Earliest) Priority Date (day/month/year) 15 September 2004 (15.09.2004) 16 September 2003 (16.09.2003)							
Applicant EKSIGENT TECHNOLOGIES, LLC								
according to Article 18. A copy is being This international search report consists of	transmitted to the International Bureau							
 Basis of the Report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item. 								
The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).								
b. With regard to any nucleotic	de and/or amino acid sequence disclos	sed in the international application, see Box No. I.						
2. Certain claims were found	unsearchable (See Box No. II)	,						
3. Unity of invention is lackin	g (See Box No. III)							
4. With regard to the title,								
the text is approved as subm	· · · · · · · · · · · · · · · · · · ·							
the text has been established	the text has been established by this Authority to read as follows:							
5. With regard to the abstract,								
the text is approved as submi	itted by the applicant.							
	- · · · · · · · · · · · · · · · · · · ·	nority as it appears in Box No. IV. The applicant search report, submit comments to this Authority.						
6. With regard to the drawings , a. the figure of the drawings to be p as suggested by the a	oublished with the abstract is Figure No	. <u>1A</u>						
as selected by this A	uthority, because the applicant failed to	suggest a figure.						
as selected by this A	uthority, because this figure better char-	acterizes the invention.						
b. none of the figures is to be pu	iblished with the abstract							

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No.

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Box	Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)				
This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:					
1.		Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely.			
2.		Claims Nos.: because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically.			
3.		Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).			
Box	No. III	Observations where unity of invention is lacking (Continuation of item 3 of first sheet)			
		onal Searching Authority found multiple inventions in this international application, as follows: ntinuation Sheet			
1. 2. 3.		As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee. As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:			
4. Rema		No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.: 1 - 23 and 27 rotest The additional search fees were accompanied by the applicant's protest. No protest accompanied the payment of additional search fees.			

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US04/30202

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : F16K 15/00 US CL : 137/528, 625.48; 264/31, 400, 463, 496; 422/50,68.1; 73/861.79								
	International Patent Classification (IPC) or to both no							
	DS SEARCHED							
			42 11-3					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 137/528, 625.48; 264/31, 400, 463, 496; 422/50,68.1; 73/861.79								
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched								
Electronic da	ata base consulted during the international search (nar	ne of data b	ase and, where practicable, sear	rch terms used)				
	UMENTS CONSIDERED TO BE RELEVANT							
Category *	Citation of document, with indication, where a			Relevant to claim No.				
X /	US 2002/0194909 A1 (HASSELBRINK, JR. et al.) 26 December 2002 (26.12.2002), see 1 - 23 and 27 entire document.							
X, P	US 6,782,746 B1 (HASSELBRINK, JR. et al.) 31 August 2004 (31.08.2004), see entire 1 - 23 and 27 document.							
A, P	US 2004/0079424 A1 (TAKEDA et al.) 29 April 2004 (29.04.2004), see entiredocument. 1 - 23, 17							
			•					
Further	documents are listed in the continuation of Box C.		See patent family annex.					
	pecial categories of cited documents:	"T"	later document published after the interna	ational filing date or priority date				
"A" document	defining the general state of the art which is not considered to be of relevance		and not in conflict with the application by principle or theory underlying the inventi	at cited to understand the				
•	olication or patent published on or after the international filing date	"X"	document of particular relevance; the clar considered novel or cannot be considered					
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as		"Y"	when the document is taken alone document of particular relevance; the class					
. ,	specified) document referring to an oral disclosure, use, exhibition or other means		considered to involve an inventive step with one or more other such documents, to a person skilled in the art					
	current published prior to the international filing date but later than the		"&" document member of the same patent family					
	ctual completion of the international search	ailing of the international searc	h report					
15 August 2005 (15.08.2005)			29 9×ALIC 2005					
		Antiberize	d officer					
Name and mailing address of the ISA/US			Jane Val	Lund				
Mail Stop PCT, Attn: ISA/US Commissioner for Patents			Ramesh Krishnamurthy					
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	Alexandria, Virginia 22313-1450 Telephone No. (571) 272-4395 Facsimile No. (703) 305-3230							

International application No. INTERNATIONAL SEARCH REPORT PCT/US04/30202 BOX III. OBSERVATIONS WHERE UNITY OF INVENTION IS LACKING This application contains the following inventions or groups of inventions which are not so linked as to form a single general inventive concept under PCT Rule 13.1. In order for all inventions to be examined, the appropriate additional examination fees must be paid. Group A, claim(s) 1 - 23 and 27, drawn to a device/system for microfluidic control. Group B, claim(s) 24 - 26 and 28 - 36, drawn to a method of manufacturing the device/system. Group C, claim(s) 37 - 40, drawn to a method of determining fluid flow rate. The inventions listed as Groups A,B and C do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features (STF) for the following reasons: The STF of group A is regulator(s) comprising a substantially elastic material and moveably disposed in conduit(s); The STF of group B is a specific manufacturing method for the regulator and the STF of group C is a method of sensing mass flow in a conduit.